

IFW

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of  
GAINER et al

Serial No. 10/647,132

Filed: August 25, 2003



Atty. Ref.: 4112-7

TC/A.U.: 1626

Examiner:

For: BIPOLAR TRANS CAROTENOID SALTS AND THEIR USES

\* \* \* \* \*

June 30, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT**

As suggested by 37 C.F.R. 1.97, the undersigned attorney brings to the attention of the Patent and Trademark Office the references listed on the attached form PTO-1449.

- All listed documents are attached.
- This application was filed after June 30, 2003 so that copies of U.S. Patent Publications are not required and are not attached.
- Listed foreign patent publications and other documents are enclosed.
- The listed documents were cited in the ISR and copies should have been supplied by WIPO directly to the US PTO. If copies are not timely received from WIPO, please telephone the undersigned so that copies can be timely supplied for the Examiner's consideration in this US National Phase Application.

This is not to be construed as a representation that a search has been made or that no better prior art exists, or that a reference is relevant merely because cited.

The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

By:



Duane M. Byers  
Reg. No. 33,363

DMB:lfo  
1100 North Glebe Road, 8th Floor  
Arlington, VA 22201-4714  
Telephone: (703) 816-4000  
Facsimile: (703) 816-4100

Atty. Docket No.	Serial No.
<b>4112-7</b>	<b>10/647,132</b>
Applicant	
<b>GAINER et al</b>	Group
Filing Date	
<b>August 25, 2003</b>	<b>1626</b>

U.S. PATENT & TRADEMARK OFFICE  
O I P E  
JUN 30 2004  
10/647,132

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

## **TRANSLATION**

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)**

	<u>Carotenoids</u> Vol. 1A: Isolation and Analysis, Edited by G. Britton, S. Liaaen-Jensen and H. Pfander, Birkhauser Verlag, Basel, 1995, pp 103-107; p. 283
	Roy, et al, <u>Shock</u> , Vol. 10, No. 3, pp 213-217 (1998)
	Singer et al, <u>Crit Care Med</u> , Vol. 28, No. 6, pp 1968-72 (2000) Intravenous crocetinate prolongs survival in a rat model of lethal hypoxemia
	Craw, M., and Lambert, C., <u>Photochemistry and Photobiology</u> , Vol. 38 (2), pp 241-243 (1983)
	Wurtman, R.J., <u>Scientific American</u> , Vol. 252, 1985 Alzheimer's Disease
	Kalani, M., et al, <u>Journal of Diabetes &amp; Its Complications</u> , Vol. 16, No. 2, pp. 153-158 (2002)
	Denninghoff et al, <u>Diabetes Technology &amp; Therapeutics</u> , Vol. 2, No. 1, pp. 111-113 (2000)
	Buchta and Andree, <u>Naturwiss</u> , The Total Synthesis of trans-2,2-Bisdimethyl-crocetin-dimethyl ester and trans-Crocetin-dimethyl ester, (1959)

\*Examiner \_\_\_\_\_ Date Considered \_\_\_\_\_

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

INFORMATION DISCLOSURE  
CITATION

(Use several sheets if necessary)

Atty. Docket No.	JUN 30 2004	Serial No.
<b>4112-7</b>		<b>10/647,132</b>
Applicant		
<b>GAINER et al</b>		
Filing Date	Group	
<b>August 25, 2003</b>	<b>1626</b>	

U.S. PATENT & TRADEMARK OFFICE

	Jansen, F.J.H.M., et al, <u>Recl. Trav. Chem. Pays-Bas</u> , 113, 552 (1994)
	Gree, R., et al, <u>Tetrahedron Letters</u> , 27, 4983 (1986)
	Letham, D.S., et al <u>Phytochemistry</u> 10, 2077 (1971)
	Buchta, E. and Andree, F., <u>Chem. Ber.</u> 93, 1349 (1960)
	Gibson, T.W., et al, <u>J. Org. Chem.</u> 41, 791 (1996)
	Snyder, J.M., et al, <u>J. Am. Oil Chem. Soc.</u> , 59, 469 (1982)

*Examiner		Date Considered	
-----------	--	-----------------	--

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.